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CERTIFICATE OF Applicant(s): Xiang L	Docket No. 133697-0022						
Application No. 10/567,413	Filing Date February 3, 2006	Examiner Unknown	Customer No. 35684	Group Art Unit Unknown			
		OF OUTSIDE-IN POLY VINYLIDENE RSION-COAGULATION METHOD AN					
I hereby certify that to		old 5 non-patent reference copies and For (Identify type of correspondence) stal Service with sufficient postage as	·				
addressed to "Comm	nissioner for Patents, P.  July 28, 2006  (Date)	O. Box 1450, Alexandria, VA 22313-1	-	3(a)] on			
		Michael S. (Typed or Printed Name of Person Mai	Mailing Correspond	lence)			
Note: Each paper must have its own certificate of mailing.							

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JUL 3 1 2006

PATENT APPLICATION

TRADEANT IN THE UNITED STATES PA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group

Art Unit:

Unknown

Attorney

Docket No.:

133697-0022

Applicant:

Xiang LI et al.

Invention:

THE PREPARATION METHOD OF OUTSIDE-IN POLY VINYLIDENE FLUORIDE HOLLOW FIBER MEMBRANE SPINNED UTILIZING A IMMERSION-COAGULATION METHOD AND

THE PRODUCT THEREOF

Serial No:

10/567,413

Filed:

February 3, 2006

Examiner:

Unknown

Certificate Of Mailing Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450. Alexandria, VA 22313-1450 on November 13,

2003

Michael S. Gzybowsk

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants wish to bring to the attention of the Examiner the documents identified on the attached form PTO-1449. Applicants respectfully request that these documents be made of record in the present application.

This Information Disclosure Statement is being filed after three months of the U.S. filing date, but before the mailing date of the first Office Action on the merits. No certification or fee is required.

Please charge the any fees due in connection with the filing of this paper to Deposit Account No. 12-2136 and please credit any excess fees to such deposit account.

Respectfully submitted,

Michael S. Gzybowy

Reg. No. 32,816

BUTZEL LONG 350 South Main Street Suite 300 Ann Arbor, Michigan 48104

(734) 995-3110

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INFORMATION DISCLOSURE CITATION  SUse several sheets if necessary)				APPLICANT(S)  Xiang LI et al.					
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	4,39	9,035	08-16-1983	Nohmi et	al.				
	6,29	9,773	10-09-2001	Takamur	ra et al.`				
	6,59	96,167	07-22-2003	Ji et al.					
	5,69	8,101	12-16-1997	Kopp et a	al. _				
	5,51	4,461	05-07-1996	Meguro	et al.		_		
			U.S. PATEN	IT APPLIC	ATION PUBLICATIONS				
*EXAMINER INITIAL	DOCUMENT NUMBER DATE			NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	2003/0094409 05-22-2003		Minegish	i et al.					
	2004	2004/0191894 09-30-2004		Muller et	al.				
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		Membrane Science Volu	ime 135, Issue 1	12 Noveml	embranes for Organic/Wa ber 1997, Pages 41-53	1 01 (apol	Loparation	, 50412	
		D Wang at al "Porous	PVDF Asymmet	ric Hallan	v Fiber Mambranes Brans	rad with the	use of Small M.	alegulas As	lditivos !!
	Ų,	Journal of Membrane S	cience Volume 1	78, Issues	v Fiber Membranes Prepa 1-2 15 September 2000, P	Pages 13-23	ase of Singil M	ACCUIAL AC	autives,
EXAMINER					DATE CONSIDERED	401	31/2008		
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		U	J.S. PATENT	DOCUMENTS				
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	5,489,406	02-06-1996	Beck et a	l.				
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<u> </u>	OTHER DOCUM	MENTS (Includ	ing Author	r, Title, Date, Pertinent	Pages, Etc.	)		•
	D. Wang et al., "Prep. Membrane Science Vo	aration and Char plume 163, Issue 2	acterization 2, 1 Novem	of Polyvinylidene Fluorid ber 1999, Pages 211-220	e (PVDF) Ho	llow Fiber Me	mbranes,"	Journal of
	D. Lin et al., "Microp	orous PVDF Mer	nbrane For	mation by Immersion Preci	pitation from	Water/TEP/I	PVDF Syste	em,''
	Desamation 143 (200.	a, au-a,						
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				erization of Colyvinylidene Flu 4 June 2002, Pages 3879-3890			es for		
		Ultrafiltration," Polym	er volume 43, Issue I	4 June 2002, Pages 3879-3890				- 15	
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